

Abstract of the Disclosure

A radio network controller of an IMT-2000 asynchronous system is disclosed. The radio network controller of the present invention includes: a Node-B matching radio access system for accessing to a Node-B; a traffic processing radio access system for performing a soft handover of radio traffic channels of the base transceiver stations; an ATM switch accessed to the traffic processing radio access system, for providing a path for communicating traffics and control data in the radio network controller, switching ATM cells, providing a path for transmitting various traffics between the radio network controllers and soft handover between the radio network controllers; a network matching radio access system for accessing to the ATM switch and a core network; a network synchronization system for generating and providing clocks needed for the radio network controller; a radio network controller controlling system for performing a call processing and a radio signal accessing by controlling the ATM switch; and a radio access network operation & maintenance system for managing and maintaining the base transceiver station and the radio network controller through an 100Base-T Ethernet path and the ATM switch path.